## WHAT IS CLAIMED IS:

1	73	An isolated nucleic acid molecule comprising an OsEMF1
2	polynucleotide sequ	ence, which polynucleotide sequence specifically hybridizes to SEQ
3	ID NO:1 under strin	gent conditions.
1	2.	The isolated nucleic acid molecule of claim 1, wherein the
2		otide is at least about 100 nucleotides in length.
1	54537 1	The isolated nucleic acid molecule of claim 1, wherein the
2	, -	otide is SEQ ID NO:1.
1	4.	The isolated nucleic acid molecule of claim 1, further comprising a
2	plant promoter oper	ably linked to the OsEMF1 polynucleotide.
1	5.	The isolated nucleic acid molecule of claim 4, wherein the plant
2	promoter is from a	OsEMKI gene.
1 \$	549) N	The isolated nucleic acid of claim 5, wherein the OsEMF1
2		ked to the promoter in an antisense orientation.
1	7.	An isolated nucleic acid molecule comprising an OsEMF1
2		ence, which polynucleotide sequence encodes an OsEMF1
3	polypeptide as show	
_		
1 2	8.	A transgenic plant comprising an expression cassette containing a ably linked to a heterologous <i>OsEMF1</i> polynucleotide of claim 1.
2	plant promoter oper	ably finked to a figle folgous OSEMI I polyfue leotide of claim 1.
1	9.	The than spenic plant of claim 8, wherein the heterologous OsEMF1
2	polynucleotide enco	odes a OsEMF1 polypeptide.
1	SUB- 18	The transgenic plant of claim 9, wherein the OsEMF1 polypeptide
2	is as shown in SEQ	
1	11.	The transgenic plant of claim 8, wherein the heterologous OsEMF1
2		nked to the promoter in an antisense orientation.
i	12.	The transgenic plant of claim 8, wherein the plant promoter is from
2	an OsEMF1 gene.	2 Some primit of statut si, who that the primit promotes to from
_		

1	13. Alle-transgenic plant of claim 12, wherein the OsEMF1 gene is as
2	shown in SEQ ID NO:1
1	A method of modulating reproductive development in a plant, the
2	method comprising introducing into the plant an expression cassette containing a plant
3	promoter operably linked to a heterologous OsEMF1 polynucleotide.
1	15. The method of claim 14, wherein the heterologous OsEMF1
2	polynucleotide encodes an OSEMF1 polypeptide.
1	The method of claim 15, wherein the OsEMF1 polypeptide has an
2	amino acid sequence as shown in SEQ ID NO:2.
1	17. The method of claim 14, wherein the heterologous OsEMF1
2	polynucleotide is linked to the promoter in an antisense orientation.
1	18. The method of claim 14, wherein the heterologous OsEMF1
2	polynucleotide is SEQID NO:1.
1	19. The method of claim 14, wherein the plant promoter is from a
2	OsEMF1 gene.
1	20. The method of claim 14, wherein the expression cassette is
2	introduced into the plant through a sexual cross.
	add